"APPROVED FOR RELEASE: 03/20/2001

CIA-RDP86-00513R000411820007-8

D2 HARUA, Sh.A. CHURAYAN, A.L.; NAPETVARIDZE, Sh.G.; DZHABUA, Sh.A.

Effect of earthquakes on buildings. Trudy Inst. stroi. dela AN Gruz. SSR 3:113-149 '51. (MLRA 9:10)

(Earthquakes and building)

DZHABUA, Sh.A.; NAPETVAR IDZE, Sh.G.; CHURAYAN, A.L.

[Album of details of earthquake-proof construction elements for apartment houses and public buildings] Al'bom detaley seismostoikikh kostruktsiy dlia zhilykh i grazhdanskikh zdanii. Razrabotali: Sh.A. Dzhabua. Sh.G.Napetvaridze, A.L.Churaian. Tbilisi, 1952. 33 p. (MLRA 9:9)

1. Akademiya nauk Gruzinskoy SSR, Tiflis, Institut stroitelinogo dela.

(Earthquakes and building)

DZHABUA, Sh.; ZAVRIYEV, K.S., professor, redaktor; DZHAPA-RIDZE, R.A., tekhnicheskiy redaktor.

[Some characteristics of axisymmetric buildings] Nekotorye osobennosti tsentricheskikh zdanii. Izd. 2-e. Tbilisi, Izd-vo Akademii nauk Gruzinskoi SSR, 1954. 58 p. [Nicrofilm] (MLRA 7:11)

1. Deystvitel'nyy chlen 4kademii nauk Gruzinskoy SSR (for Zavriyev) (Structures, Theory of)

CHURAYAN, A.L.; DZHABUA, Sh.A.; HAPETVARIDZE, Sh.G.; LOMADZE, D.R.

Basic principles of designing earthquade-resistant buildings of rigid type. Trudy Inst.stroi.dela AN Gruz.SSR 5:101-111 '55.

(HLRA 9:8)

(Earthquakes and building)

CHURAYAN, A.L.; DZHABUA. Sh.

Foundations of earthquake resistant buildings. Trudy Inst.stroi.dela AN Gruz.SSR 5:113-122 '55. (MLHA 9:8) (Foundations) (Earthquakes and building)

DZHABVA SH.A.

CHURAYAN, A.L., kandidat tekhnicheskikh nguk; DZHABUA, Sh.A.

Precast reinforced concrete floors for antiseismic construction. Bet. 1 shel.-bet. ne.8:282-287 N '55. (MLRA 9:1)

(Floors, Concrete) (Earthquakes and building)

DZHABUA, Sh.a., inshener; CHURAYAN, A.L., inzhener

Precast reinforced concrete antiseismic chords. Stroi. prom.
33 no.7:29-32 Jl '55. (MIRA 8:9)

(Earthquakes and building)

(MLRA 9:3)

CHURAYAN, A.L., kandidat tekhnicheskikh nauk; DZHABUA, Sh.A., inzhener.

Large-sized block foundations and walls for buildings in earthquake

areas. Stroi.prom. 33 no.12:26-30 D '55.
(Building blocks) (Earthquakes and building)

DZHABUA, SH. A.

DZHABUA, SH. A. "Some Problems of Using Prefabricated Reinforced-Concrete Structures in Earthquake Regions." Published by the Acad Sci Georgian SSR. GUUZ. Min Railways. Toilisi Inst of Railroad Transport Engineers imeni V. I. Lenin. Toilisi, 1956. Dissertation for the Degree of Camidate in Technical Science)

So: Knizhnaya Letopis', No. 19, 1956.

DOWN BARC Sh. P.
BYKHOVSKIY, V.A.; DZHABUA, Sh.A.; DUZINKAVICH, S.Yu.; CHURAYAN, A.L.

New "Standards and regulations for building in seismic regions."

Stroi. prom. 35 no.12:30-33 D '57. (MIRA 11:1)

(Zarthquakes and building)

DZHABUA, Sh.A.

3(10)

PHASE I BOOK EXPLOITATION

SOV/3034

Akademiya nauk SSSR. Sovet po seyamologii

Byulleten'; Krasnopolyanskoye zemletryaseniye, 1955 g., No.5 (Bulletin; Krasnaya Polyana Earthquake, 1955, No.5) Moscow, 1958. 62 p. 1,200 copies printed.

Resp. Ed.: S.V. Medvedev, Doctor of Technical Sciences; Ed. of Publ. House: N.V. Shebalin.

PURPOSE: This booklet is intended for scientists working in the field of geophysics and seismology.

COVERAGE; This bulletin contains three studies of the Krasnaya Polyana earthquake which occurred on December 21-27, 1955. The studies include data gathered by the expedition organized by Ye.F. Savarenskiy, Chairman of the Committee on Seismology of the Academy of Sciences, USSR, in January-February 1956. The members of the expedition included A.Z. Kats of the Geophysical Institute AN SSSR; A.D. Tskhakaya of the Geophysical Institute of the Academy of Sciences of the Cruzinskeya SSR; and Sh.A. Dzhabua, A.L. Churayan, and A.N. Safaryan of the Building Institute

Card 1/2

SOV/169-59-5-4464

Translation from: Referativnyy zhurnal, Geofizika, 1959, Nr 5, p 27 (USSR)

AUTHORS: Dzhabua, Sh.A., Kats, A.Z., Safaryan, A.N., Tskhakaya, A.D.,

Churayan, A.L.

TITLE: The Earthquake of Krasnaya Polyana of December 21 - 27, 1955,

and Its Aftereffects

PERIODICAL: Byul. Soveta po seysmol. AS USSR, 1958. Nr 5, pp 3 - 34

ABSTRACT: In January - February 1956, the authors of the article in

question led the study of the aftereffects of two earthquakes which took place in December 21 - 27, 1955. The expedition inspected 18 populated localities, among them Krasnaya Polyana, Adler, Sochi, Gagra, Khosta, Matsesta. The results of the inspection of damaged buildings and structures in the various localities are cited and an evaluation of intensity of the earth-quake is given. On the basis of the instrumental records

of the seismic stations and the facts obtained by macroseismic observations, the epicenter zone of the earthquake of December

Card 1/2 21 - 27, 1955, occurred in the region of Krasnaya Polyana. The

 SOV/169-59-5-4464

The Earthquake of Krasnaya Polyana of December 21 - 27, 1955, and Its Aftereffects

power of the earthquake in the epicenter is seven marks. With increasing distance from the epicenter, the power rapidly decreases that testifies the shallow location of the focus. The macroseismic region of the earthquake extends from Gagra to Lazarevskaya along the seacoast and to Kurdzhinovo in the Southern Caucasus. The macroseismic radius amounts to 65 - 75 km when assuming as epicenter Krasnaya Polyana. The influence of the characteristics of the ground and of the relief on the force of shock is studied and brief information is given on the geology and on the seismostatistics of the region.

N.A. Vvedenskaya

Card 2/2

ZNACHKO-YAVORSKIY, I.L.; DZHABUA, Sh.A., red.; KAKABADZE, Dzh., red.izd-va; DZHAPARIDZE, N.A., tekhred.

> [E.G.Cheliev, inventor of the artificial Roman cement] E.G.Cheliev, inventor of the artificial house state.
>
> E.G.Cheliev - izobretatel iskusstvennogo romantsementa.
>
> Tbilisi, Izd-vo Akad.nauk Gruzinskoi SSR, 1959. 18 p.
>
> (MIRA 13:7)

(Cheliev, Egor Gerasimovich, 1771-1839)

NASONOV, V.N.; BYKHOVSKIY, V.A.; DZHABUA, Sh.A.; DUZINKEVICH, S.Yu.; KORCHINSKIY, I.L.; POLYAKOV, S.V.; STEPANYAN, V.A.

Ways of lowering construction costs of industrial buildings to be erected in seismic regions. Prom. stroi. 37 no.8:20-23 Ag 159.

(MIRA 12:11)

(Construction industry-Costs) (Earthquakes and building)

DZHABUA, Sh.A.; CHURAYAN, A.L.; LORDKIPANIDZE, R.S., red.; SARKISYAN, L.N., red.izd-ve; TODUA, A.R., tekhred.

[Reasons for changes in some requirements in "Building norms and regulations for seismic regions."] Obosnovanie izmenenii nekotorykh trebovanii "Norm i pravil stroitel stva v seismichaskikh raionakh." Tbilisi, Izd-vo Akad.nauk Gruzinskoi SSR. 1960. 49 p. (MIRA 14:1) (Earthquakes and building)

CHURAYAN, A.L.; DUZINKEVICH, S.Yu.; DZHAHUA, Sh.A.

Methods for sealing joints of precast reinforced concrete ceilings in seismic regions. Prom.stroi. 8 no.7:26-31 (MIRA 13:7)

(Earthquakes and building) (Ceilings)

CHURAYAN, Artemiy Luk'yanovich, kand. tekhn. nauk; DZHABUA, Shalva Andreyevich; DUZINKEVICH, S.Yu., inzh., red.; BEGAK, G.A., red. izd-va; IGNAT'YEV, V.A., tekhn. red.

[Designs and units for large-panel buildings in earthquake districts] Konstruktivnye skhemy i uzly krupnopanel'nykh zdanii dlia seismiche-skikh raionov. Pod red. S.IU.Duzinkevicha. Moskva, Gos. izd-vo lit-ry po stroit., arkhit. i stroit. materialam, 1961. 238 p.

(MIRA 14:7)

(Earthquakes and building)

CHURAYAN, A., kand.tekhn.nauk; DZHABUA, Sh., kand.tekhh.nauk

Earthquakeproof buildings with a nonrigid first story. Zhil.

stroi. no.l:14-15 '62. (MIRA 16:1)

(Earthquakes and building)

CHURAYAN, A., kand. tekhn. nauk; DZHABUA, Sh., kand. tekhn. nauk; KOCHESHKOV, V., inzh.; MAL'TSEV, P., inzh.

Sealed joints of elements of earthquake-proof large-panel buildings, Zhil. stroi. no.12:20-21 '62. (MIRA 16:1)

(Earthquakes and building)
(Building—Details)

USSR/Form Animals. - Small Horned Stock

Q-3

Abs Jour : Ref Zhur - Biol., No 6, 1958, No 26168

Author : Dzhedrenov S.N.

Inst : Not Givon

Titlo : Comprative Results of Different Timing of Smebings of the Kazakh Fine-wool Sheep (Sravnitel'nyye rezultaty realichnykh

srokov okote kezekhskikh tonkorunnykh ovets)

Orig Pub: Tr. Almo-Atinsk. zoovet. in-te, 1956, 9, No 42-47

Abstract: The author reports on the experiments conducted with a view to determine the most effective timing of the labbing for the fine-wool sheep in the south-cast Kazakhstan. The experimentation was carried out on the lambs of the Kazakh Fine-wool breed (1,203 heads) born at different periods of winter and spring). The average live weight atworning (4-5 months) of winter young rams was 2.9 kg. and that of young ewes 2.6 kg. higher than that of spring ones. At 7-8 months of ago, the average live weight of lambs of the winter lambing was higher in young rams by 12.2 kg. (35%), and in young owes by 8.9 kg.

Cord : 1/2

27

DZHADRANOV, S.N., assistent

Comparative results of various lambing times in Kazakh fine-wool sheep. Trudy AZVI 9:42-47 *56. (MIRA 15:4)

1. Iz kafedry melkogo zhivotnovodstva (zav. kafedroy - chlenkorrespondent AN KazSSR, zasluzhennyy deyatel nauki, doktor prof. V.A.Bal mont) Alma-Atinskogo zooveterinarnogo instituta. (Kazakhstan-Sheep)

DZHADYK, V.K.

SUBJECT

USSR/MATHEMATICS/Theory of functions

CARD 1/2 PG - 512

AUTHOR

DZJADYK V.K.

TITLE

On the constructive characteristic of the functions which on

a finite section of the real axis satisfy the condition

Lip $\propto (0 < \propto < 1)$.

PERIODICAL

Izvestija Akad. Nauk 20, 623-642 (1956)

reviewed 1/1957

Incited by Nikol'ski, the author completes own and Timan's investigations (Doklady akad. Mauk 75, 499-501; 78, 17-20; 77, 969-972) by some new results. On the interval [-1,+1] two classes of functions are considered: 1. Lip ≪ - class of those functions for which $|f(x+h)-f(x)| \leq Ah^{\alpha}$, h>0, $0 < \alpha < 1$, A - constant and 2. Z - class of those functions for which $|f(x+h)-2f(x)+f(x-h)| \leq Ah.$ The following principal theorems are proved: 1. In order that a function f(x) being defined on [-1,+1] possesses a r-th

derivative $f^{(r)}(x)$ belonging to the class Lip \propto it is necessary and sufficient that for every integer n a polynomial $P_n(x)$ of at most n-th degree can be determined such that for all $x \in [-1,+1]$ the inequation

(1)
$$\left| f(x) - P_n(x) \right| \leq \frac{c}{n^{r+\alpha}} \left[(1-x^2)^{\frac{r+\alpha}{2}} + \frac{1}{n^{r+\alpha}} \right]$$

Izvestija Akad. Nauk 20, 623-642 (1956)

CARD 2/2

PG - 512

is satisfied. Here c is a constant not depending on x and n. 2. In order that under the same assumptions $f^{(r)}(x)$ belongs to Z, the satisfaction of (1) with $\chi = 1$ is sufficient.

KUTATELADZE, K.S., doktor tekhn.nauk; TANDILOVA, K.B., and.tekhn.nauk; SOSELIYA, L.D., inzh.; DZHADZHANASHVILI, O.S., inzh.; CHRDILELI, O.G., inzh.

Increasing the activity of clinkers. TSement 30 no. 2:7-8 Mr-Ap 164. (MIRA 17:5)

1. Gosudarstvennyy nauchno-issledovatel†skiy institut stroitel†-nykh materialov, Tbilisi, i Rustavskiy tsementnyy zavod.

PKHALADZE, G.M., prof.; MACHAVARIANI, S.N., dotsent; TSINTSADZE, A.N.;
MAGRADZE, K.G., dotsent; POCHKHUA, P.E.; CHOCHUA, D.V., kand.
med. nauk; KOTARIYA, V.G., kand. med. nauk; KADAGIDZE, K.I.,
kand. med. nauk; GURABANIDZE, T.A., kand. med. nauk; PKHAKADZE,
A.S., kand. med. nauk; AMIRIDZE, M.V., kand. med. nauk; KAVTARADZE,
V.A., kand. med. nauk; KUTALADZE, L.A., kand. med. nauk; TSAGARELI,
G.G., kand. med. nauk, [deceased]; KENCHADZE, I., kand. med. nauk;
ABASHIDZE, N.G., kand. med. nauk; KHMALADZE, T.I., kand. med. nauk;
DZHADZHANIDZE, D.V., kand. med. nauk

Effectiveness of the treatment of infectious syphilis (stage I and II) with bicillin-1 and bicillin-3. Vest. derm. i ven. no.1:56-61 '65. (MIRA 18:10)

1. Tbilisskiy nauchno-issledovatel'skiy kozhno-venerologicheskiy institut (dir.- dotsent S.N. Machavariani) i kafedra kozhno-venericheskikh bolezney (zav.- prof. G.M. Pkhaladze) Tbilisskogo instituta usovershenstvovaniya vrachey.

DZHAFAR, S.

Tomorrow we shall show the same solidarity with the Algerian people as we did yesterday. Vsem. prof. dvizh no.8/9:12-16
Ag-S 162. (MIRA 15:10)
(Trade unions) (Algeria—Politics and government)

TUTAYUK, V.Kh.; DZHAFARLI, P.M.

Anatomic structure of the leaves of various forms of the oriental oak (Quercus macranthera Fisch et Mey). Dokl. AN Azerb. SSR 18 no.7:53-57 '62. (MIRA 17:2)

TUTAYUK, V.Kh.; DZHAFARLI, F.M.

Anatomical structure of the leaves of various forms of oriental oak (Q. macranthera F et M.). Izv.AN Azerb.SSR. Ser.biol. i med.nauk no.4:9-17 '63. (MIRA 17:4)

32443

16,4100

S/044/61/000/010/006/051 C111/C222

AUTHOR:

Dzhafarli, G.A.

TITLE: On the interpolation of entire periodic functions

PERIODICAL: Referativnyy zhurnal. Matematika, no. 10, 1961, 9 - 10, abstract 10 B 38. ("Tr. Azerb. gos. ped. in-ta", 1960, 12, 123-131)

TEXT: Let f(z) be an entire periodic function with the period 2π

$$f(z) = \sum_{m=-n}^{n} \frac{\prod_{k=-n}^{n} \sin \frac{z-a_k}{2}}{\prod_{k=-n}^{n} \sin \frac{a_m-a_k}{2}} \cdot \frac{f(a_m)}{\sin \frac{z-a_m}{2}} + R_n(z)$$

where a_m (m = 0, $\frac{1}{2}$ 1, $\frac{1}{2}$ 2,...) are knots of interpolation; let

Card 1/2

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On the interpolation of entire ...

S/044/61/000/010/006/051 C111/C222

Im $(a_m) = \lg g_m$, where $\lim_{m \to \infty} g_m = \infty$, $\sum \frac{1}{g_m} < \infty$; if $M^+(\lg r)$ is

the maximum of the amount of f(z) on the straight lines $y = \frac{1}{2} \lg r$ and $\lim_{n\to\infty} \left\{ \log M^{\frac{t}{2}} \left[\log(25 n + 1) \right] - 2(9 n + 9) \right\} = -\infty$

holds for every $\S > 0$, where n(r) is the density function of the sequence of knots then $\lim_{n\to\infty} R_n(z) = 0$ holds uniformly for $|x| \leq \kappa$,

 $|y| \le |g|r|$; the theorem is proved according to the method due to M.V. Keldysh and I.I. Ibraginov. The author uses the theorem of I.I. Ibragimov on the convergence of the trigonometric interpolation process for the case of entire functions of finite order and the normal type with the period 2 % .
[Abstracter's note: Complete translation.]

Card 2/2

DZHAFARLI, G.M.

Multiple orthogonal sets of functions complete with respect to the operation of evolution. Izv.AN Azerb.SSR.Ser.fiz.mat.i tekh. nauk no.6:11-23 '61. (MIRA 15:4) (Functions, Orthogonal)

DZHAFARLI, G.M.

Convergence of Fourier series in a class of orthonormalized multiplicative systems. Izv. AN Azerb.SSR. Ser. fiz. mat. i tekh. nauk no.4:17-36 '62. (MIRA 16:2) (Functions, Orthogonal) (Fourier series)

VILENKIN, N.Ya.; AGAYEV, G.N.; DZHAFARLI, G.M.

Theory of multiplicative orthonormalized systems of functions.

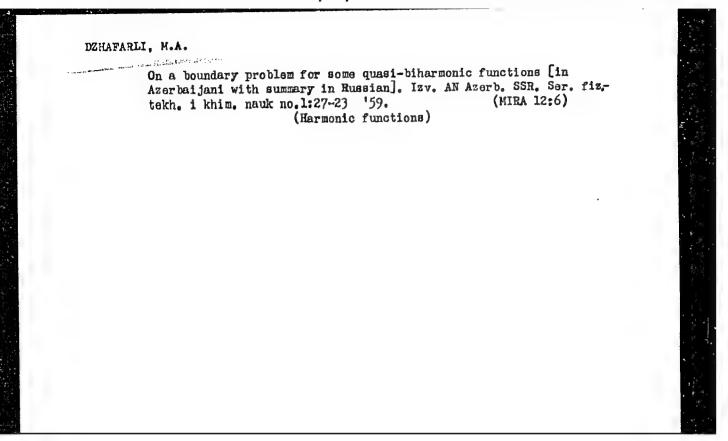
Dokl. AN Azerb. SSR 18 no.9:3-7 '62. (MIRA 17:1)

1. Institut matematiki i mekhaniki AN AzerbSSR. Predstavleno akademikom AN Azerbaydzhanskoy SSR Z.I. Khalilovym.

AGAYEV, G.N.; DZHAFARLI, G.M.

A class of multiplicative orthonomalized systems of functions. Izv. AN Azerb. SSR. Ser. fiz.-mat. 1 tekh. nauk no.2:27-36 '63.

DZHAFARLI, M. A., Candidate Phys-Math Sci (diss) -- "Marginal problems for quasilinear elliptic equations". Baku, 1959, published by the Acad Sci Azerb SSR. 12 pp (Acad Sci Azerb SSR, Inst of Phys and Math), 150 copies (KL, No 24, 1959, 125)



DZHAFARLI, M.A.

Solution of the first boundary problem for quasilinear elliptic equations [in Azerbai jani with summary in Russian]. Izv. AN Azerb. SSR. Ser. fiz. tekh. i khim. nauk no.2:13-28 [MIRA 12:8]

(Differential equations)

89557

S/044/60/000/008/029/035 C111/C222

16.4600 AUTHOR:

Dzhafarly, M.A.

TITLE:

Positivity and positive definiteness of the biharmonic

operator Δ^2 in the complex Hilbert space

PERIODICAL: Referativnyy zhurnal. Matematika, no.8, 1960, 151,

abstract no. 9170. Tr. In-ta fiz. i matem. AN Azerb SSR,

1959, 8, 134-145

TEXT: The author proves that the operator Δ^2 is positive and positive definite in the complex Hilbert space. The inequality of Friedrichs

$$\left(\int_{\Omega} \sum_{i=1}^{n} \left| \partial u / \partial x_{i} \right|^{2} \geqslant \chi \int_{\Omega} \left| u \right|^{2} d\Omega, \quad u \mid_{S} = 0,$$

s -- boundary of the region Ω) which was generalized by the author to the case of complex functions u is used for the proof.

[Abstracter's note: The above text is a full translation of the original Soviet abstract.

Card 1/1

ZUL'FUGAROV, Z.G.; PARFENOVA, T.S.; DZHAFARLI, R.M.; RUSETSKAYA, Ye.A.; POGOSOV, A.G.

Wine clarification with bentonite gilyabi clays from Shemakha and Geokmaly deposits in Azerbaijan. Trudy Inst. khim. AN:Azerb. SSR 16:27-39 '57. (MIRA 12:9)

(Azerbaijan—Bentonite) (Wine and wine making)

RASULOVA, S.M.; KHALILOVA, M.G.; DZHAFARLI, R.M.; MURADOVA, S.A.; ZUL'FUGAROV, Z.G.

Investigation of means of increasing stable activity of the cracking catalyst "khanlarit" (in Azerbaijani with summary in Russian). Izv. AN Azerb. SSR. Ser. fiz.-tekh. i khim. nauk no.5:81-95 '58. (MIRA 12:1) (Cracking process) (Catalysts)

DEHAFARLY, Z A.

BABAYEV, M.B.; DZHAFARLY, Z.A.

Present status of the Azerbaijan gas industry and prospects for its development. Azerb.neft.khoz. 36 no.11:25-27 N '57.

(MIRA 11:2)

(Azerbaijan-Gas, Natural)

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UZNAFAROV, A. A.

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DZHAFAROV, A. A. Vrediteli zernovykh kulltur iz mira nasekomykh v rayonakh nakhichevanskov ASSR. Doklady (Akad nauk azerbaydzh. SSR), 1949, Eo. 5, s. 215-220. - Rezyume na azerbaydzh. yzz. - Piłliogr: 6 nazv.

SO: Letopis' Zhurnal'nykh Statey, No. 29, Noskva, 1949

BARGRAMYAN, M.G., TROFIMOV, G.K., NADZHAFOV, A.Yu., KASIMOV, A.A., DZHAFAROV, A.A. KEVELIYEV, T.Kh.

Geographic malariological study in Azerbaijan as a basis for rational antimalarial measures during a rapid decrease in the incidence of malaria. Report No.1 [with summary in English]. Med.paraz. i paraz. bol. 27 no.3:278-283 My-Je '58 (MRA 11:7)

1. Iz Instituta malyarii i meditsinskoy parazitologii Ministerstva zdravookhraneniya AzerSSR (dir. instituta A.A. Kasimov).

(MALARIA, prevention and control

geographic survey as indic. for control in rapid decrease (Rus))

CIA-RDP86-00513R000411820007-8 "APPROVED FOR RELEASE: 03/20/2001

.USSR / General and Special Zoology. Insects.

P

Abs Jour: Ref Zhur-Biol., No 4, 1958, 16400

Author : Dzhafarov A.A.

Inst Title : Not given.

: The Purple Scale Insect Porphyrophora tritici Bod. as a Pest of the Grain Cultures in Nakhichevan

of the Azerbaydzhan Soviet Socialist Republic. (Purpurnyi chervets Porphyrophoro tritici Bod. kak vreditel' zernovykh kul'tur v Nakhichevanskoi

ASSR.)

Orig Pub: Izv. AN AzerbSSR, 1956, Noll, 83-90

Abstract: Porphyrophora tritici was found on crops of young

winter wheat only in three villages of the Dzhulfin rayon. The larvae were developed from hiber-nating eggs when the soil temperature at a depth of 10-15 cm reached 10-12 degrees. They passed

Card 1/3

12

DZHAFAROV, A.A. (Baku); ZAVEL'SKIY, D.Ya. (Baku); SHTURMIN, V.G.; BADAL'YANTS.

Using gas in steam and diesel locomotives. Zhel. dor. transp. 40 no.2:45-51 F 158. (MIRA 11:3)

1. Machal'nik Azerbaydzhanskoy zheleznoy dorogi (for Dzhafarov).
2. Nachal'nik otdela motorno-rel'sovogo transporta Azerbaydzhanskoy zheleznoy dorogi (for Zavel'skiy). 3. Nachal'nik tekhnicheskogo otdela Severo-Kavkazskoy dorogi (for Shturmin). 4. Nachal'nik tekhnicheskogo byuro Krasnodarskogo otdeleniya Severo-Kavkazskoy dorogi (for Badal'yants).

(Locomotives) (Gas as fuel)

ABDULIAYEV, Kh.I.; BAGRAHYAN, M.G., DZHAFAROV, A.A.

Organization of control over laboratory malaria diagnosis in Azerbaijan. Hed.paraz. i paraz.bol. 28 no.3:327-328 My-Je 159. (MIRA 12:9)

l. Iz Instituta malyarii meditsinskoy parazitologii Ministerstva zdravookhraneniya Azerbaydzhanskoy SSR. (MAIARIA, diag. standard. in Russia (Rus))

DZHAFAROV, A.A.

Gases of quartan malaria in the Kuba District of Azerbaijan in 1963. Mod.paraz. i paraz.bol. 33 no.3:317-318 My-Je *64. (MIRA 18:2)

1. Nauchno-issledovatel skiy institut meditsinskoy parazitologii i tropicheskoy meditsiny Ministerstva zdravookhraneniya Azerbaydzhanskoy SSR imeni Kirova, Baku.

"APPROVED FOR RELEASE: 03/20/2001

CIA-RDP86-00513R000411820007-8

DZHAFAROY AA

AYRUMOV, A.M.; DZHAFAROV, A.A.; KHARIK, V.F.; TITSKAYA, B.F., vedushchiy redaktor; POLOSINA, A.S., tekhnicheskiy redaktor

[Grab tools and devices used in the operation and general overhaul of oil wells] Lovil'nye instrumenty i prisposobleniia, primeniaemye pri ekspluatatsii i kapital'nom remonte neftianykh skvazhin.

Moskva, Gos. nauchno-tekhn. izd-vo neftianoi i gorno-toplivnoi lit-ry, 1954, 75 p. [Microfilm] (MLRA 7:10)

(Petroleum-well repair)

Modernized disengaging casing spear. Azerb.neft.khoz. 35 no.10:22-23 0 '56. (MLRA 10:1)

(Oil well drilling—Equipment and supplies)

"APPROVED FOR RELEASE: 03/20/2001

CIA-RDP86-00513R000411820007-8

Mineralogical characteristics of rocks in the Erivan saltbearing region. Trudy Arm.geol.upr. no.1:103-108 '57. (MIRA 12:1)

(Briven region-Kineralogy, Determinative)

"APPROVED FOR RELEASE: 03/20/2001 C

CIA-RDP86-00513R000411820007-8

DZHAFAROV A A CONTROL OF THE PROPERTY OF THE P

Now design of deflectors used in drilling oil well second shafts.

Azerb. neft. khoz. 36 no.10:27-28 0 '57. (MIRA 11:2)

(Oil well drilling—Equipment and supplies)

DZHAFAROT A.A.; DCRUMENTOV, V.I.

Cutting a window in the production casing when crilling the second hole of a well. Neft, khoz. 41 no.7:63-66 31.63 (MIRA 10:03)

DZHAFAROV, A.A.

Some problems of the geology of oil fields in the southeastern part of the Apsheron Archipelago. Dokl. AN Azerb. SSR 21 no.7:23-27 165. (MIEA 18:12)

1. Neftepromyslovoye upravleniye imeni XXII sⁿyezda Kommunisticheskoy partii Sovetskogo Soyuza. Submitted April 24, 1965.

DZHAFAROV, A. D.: Master Med Sci (diss) -- "The functional state of the kidneys and liver in brucellosis". Tashkent, 1959. 20 pp (Tashkent State Med Inst), 300 copies (KL, No 13, 1959, 111)

TZHAFAROV. A.D.: GANIYEV. U.G.; NEVSKIY. M.V.

State of the cardiovascular system in some infectious diseases.

Shor.nauch.trud. - : OMI 22:83-86 162.

(MIRA 18:10)

1. Kafedra infektsionnykh bolezney (zav. kafedroy - prof. T.Kh. Nadzhmiddinov) Tashkentskogo gosudarstvennogo meditsinskogo instituta.

DZHAFAROV, A.D.; DZHALTLOV, K.D.

State of some liver functions in patients with brucellosis treated with antibiotics. Sbor.nauch.trud.TashGMI 22:164-169 62.

(MIRA 18:10)

1. Kafedra infektsionnykh bolezney lechebnogo fakuliteta (zav. kafedroy - fasluzhennyy deyateli nauki UzSSR, doktor med.nauk prof. T.Kh.Nadzhmiddinow) Tashkentskogo gosudarstvennogo meditsinskogo instituta.

NADZHIMIDDINGV, T.Kh., prof.; DZHAFAROV, A.D., kand. med. nauk, assistent; TSIPKINA, S.V., ordinator

Outbreak of trichinosis in the Uzbek S. S. R. following eating the meat of a wild boar. Sov. med. 28 no.9:136-138 S 165.

(MIRA 18:9)

1. Klinika infektsionnykh bolezney (dir. - prof. T.Kh. Nadzhimid-dinov) Tashkentskogo meditsinskogo instituta.

DZHAFAROV, A.D., kand.med.nauk

Meritorious scientist of the Uzbek S.S.R., Professor Tursun Khodzhaevich Nedzbuiddinov; on his 60th birthday. Med. zhur. Uzb. no.1:94-95 Ja '62. (MIRA 15:3) (NADZHMIDDINOV, TURSUN KHODZHAEVICH, 1911-1961)

DZHALILOV, K.D., kand. med. nauk; DZHAFAROV, A.D., kand. med. nauk; NADZHMIDDINOV, T.Kh., prof., zasl. deyatel nauki UzSSR, dektor med. nauk, otv. red.; LYUBETSKAYA, R.Kh., red.; GÖR'KOYAYA, Z.P., tekhn. red.

[Problems of the diagnosis and treatment of brucellosis] Voprosy diagnostiki i lecheniia brutselleza. Tashkent, Akad. nauk Uzbekskoi SSR, 1963. 110 p. (MIRA 16:7) (BRUCELLOSIS)

DZHAFAROV, A.F.

DZHAFAROV, A. F.

"The Influence of Certain Injuries of Apples on Their Preservation." Cand Tech Sci. Moscow Inst of National Economy imeni G. V. Plekhanov

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (11)

50: Sum. lio. 521, 2 Jun 55

USSR/General and Special Zoology. Insects. Insect and Hite Pests. Fruit and Berry Crop lests.

Abs Jour : Ref Zhur-Biol., No 20, 1958, 99234

Author : Dzhafarov, A. F.

Inst
Title: The Effect of Damage Caused by the Godling
Hoth on the Quality and Storage of Apples.

Orig Pub: Sad i ogorod, 1957, No 11, 34-37

Abstract: More than 500 kg of different varieties of apples were shipped to Moscow from Azerbay4 dzhan. The shipment consisted of healthy apples and apples which did not have more than two scarred blemishes resulting from damage caused by the codling moth. The apples were stored from 15 October to 31 March at 10 and humidity of 90 percent. At the end of

Card. : 1/3

USSR/General and Special Zoology. Insects. Insect and Mite Pests. Fruit and Berry Crop Pests.

Abs Jour : Ref Zhur-Biol., No 20, 1958, 92234

March, 30.3 percent of the apples had apple rot (among the healthy apples 1 and 4.2 percent). Eight percent were withered (among the healthy apples 1.4 percent). The incidence of physiological scald in the fruit damaged by the codling moth was one half that of the healthy apples. Apparently, a certain amount of volatile substances (acctaldehyde of alcohol, etc.) which produces burns on the skin, freely leaves the fruit through the scarred passages in the pulp of the fruit. During the 5 months of storage, the damaged fruit of different varieties lost on an average 9.2 percent in weight,

Card : 2/3

27

USSR/General and Special Zoology. Insects. Insect and Mite Posts. Fruit and Berry Crop Posts.

Abs Jour : Ref Zhur-Biol., No 20, 1958, 92234

50 percent of acids, 32 percent of the aggregate amount of sugar, 75 percent of saccharose. The healthy apples lost respectively 4.25, 10, and 34 percent. The quality of the damaged fruit had already become inferior after 2 months of storage. -- h. 1. Adrianov

Card : 3/3

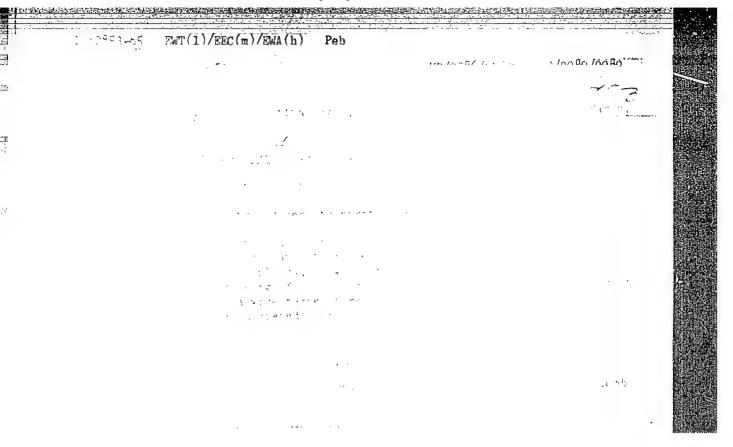
ANTONOV, Mikhail Vasil'yevich; DZHAFAROV, Abdulla Fataliyevich;
VOLKOV, Yevgeniy Nikitich; SABUROV, N.V., prof., retsenzent;
SKROBANSKIY, G,G., prof., retsenzent; RUKOSUYEV, A.N., red.;
SINEL'NIKOVA, TS.B., red.; AYRIYEVA, N.S., red.; TERYUSHIN,
M.I., tekhn. red.

[Commercial guide to food products; vegetables and fruit]Tovaro-vedenie prodovol'stvennykh tovarov; ovoshchi i plody. Pod red. A.N.Rukosueva. Moskva, Gostorgizdat, 1962. 400 p. (MIRA 16:1)

(Vegetables) (Fruit)

DZHAFAROV, Abdulla Fataliyevich; AYRIYEVA, N.S., red.

[Rare vegetables] Malorasprostranennye ovoshchi. Moskva, Ekonomika, 1964. 75 p. (MIRA 18:1)



32795 S/137/61/000/012/092/149 A006/A101

12300 1573

AUTHOR: Dzhafarov, A. M.

TITLE: Chost formation in resistance butt welding

PERIODICAL: Referativnyy zhurnal. Metallurgiya, no. 12, 1961, 5, abstract 12E28 ("Azerb. neft. kh-vo", 1961, no. 3, 41 - 45)

TEXT: The author studied the properties and composition of the metal of ghosts formed during resistance-butt welding, and their effect on the strength of the weld metal. Grade 15, 20, 25, 30, 35, 40 and 45 steel specimens of 22 mm in diameter and 200 mm length were used. Resistance and flash welding was performed on an ACH -25 (ASN-25) machine. Results of metallographical, chemical and spectral analysis of the specimens, microhardness and tension tests, lead to the following conclusions: 1. Ghosts are the results of decarbonization, caused by the prevalent fusion of carbon-enriched areas owing to rising diffusion. 2. With a higher C content in the welded steels, the maximum width of the ghost increases first (up to 0.27% C) and then decreases; the duration of heating, to obtain its maximum width, decreases too. 3. The metal of the ghost consists mainly of ferrite, with different degrees of Si-alloying, as compared to the base metal.

Card 1/2

32795 S/137/61/000/012/092/149 A006/A101

Chost formation in resistance butt welding

4. The strength of the ghost depends on the conditions of welding for the given steel grade; it increases with higher current density and longer duration of its passage. 5. The effect of the ghost on the weld metal strength depends on its width and the heating rate, at which it arises. At 1 mm width of the ghost, the strength of the joint does not decrease, if the heating rate during welding is > 250 degrees/sec. A further increase of the ghost width (> 1 mm) reduces the strength of the weld metal. 6. Best results in respect to strength are obtained at a heating rate of 250 - 300 degrees/sec. There are 22 references.

V. Tarisova

[Abstracter's note: Complete translation]

Card 2/2

DZHAFAROV, A.H.

Effect of a light-colored strip on the strength of metal seams in resistance-butt welding. Izv. vys. ucheb. zav.; neft i gaz no.8:115-119 '58. (MIRA 11:10)

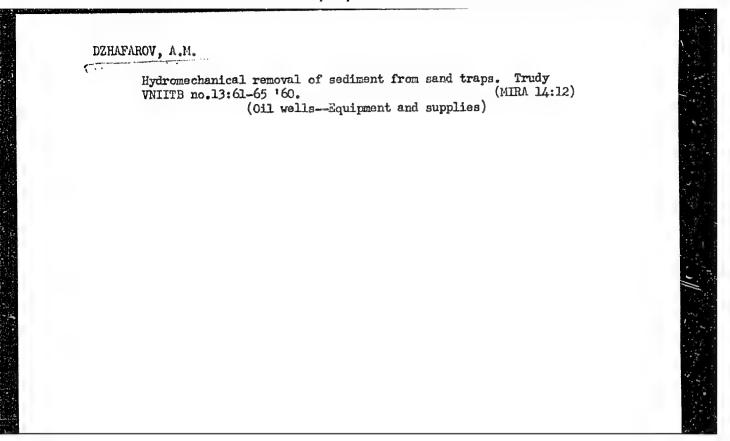
1.Azerbay dzhanskiy industrial'nyy institut im. M. Azizbekova.
(Pipelines--Welding)

KOSTIN, B.A., inzh.; DZHAFAROV, A.M., inzh.

Mechanizing the cleaning of oil field containers. Bezop. truda v prom. 5 no. 5:20-21 My '61. (MIRA 14:5) (Oil fields-Equipment and supplies)

DZHAFAROV, A.M.

Formation of a segregation line in resistance-butt welding. Azerb. nefti. khoz. 40 no. 3:41-45 Mr 161. (MIRA 14:5) (Electric welding-Defects)



DZHAFAROV, A.M.

Effect of the shape of conjugated surfaces on the structure and properties of seam metal in case of a resistance butt welding. Za tekh. prog. 3 no.7:20-22 Jl '63. (MIRA 16:12)

DZHAFAROV, A.M.

Change in the structure and composition of seams in resistance-butt welding. Izv. vys. ucheb. zav.; neft' i gaz 6 no.2:105-109 '63.

(MIRA 16:5)

1. Azerbaydzhanskiy politekhnicheskiy institut.
(Electric welding)

DZHAFAROV, A.M.; AKHMEDOV, B.M.

Heat treating of low alloy pipe steels. Metalloved. i term. obr. met. no.12:15-17 D '64 (MIRA 18:2)

1. Azerbaydzhanskir rolitakhricheskir institut i Azerbaydzhan-skiy nauchno-issledovatel*skiy institut neftyanogo mashino-stroyeniya.

DZHAFAROV, A.M.

Problem of the kinetics of the formation of a light streak in resistance butt welding of alloyed steels. Sbor.nauch.-tekh. inform.Azerb.inst.nauch.-tekh.inform.Ser.Mashinestroi. no.1426-37 [62. (MIRA 18:8)]

1. Azərbaydzhanskiy politekbnichəskiy institut.

DAHAFASOF, A.S.

DZHAFA OV, A.S. -- "The Technology of Construction." Min Construction Materials Industry Azerbaylahan SSR. As rhaydahan Sei R s Inst of Construction Materials and Structures Emeni S.B. Dadashav, Paku, 1755
(Dissertation for the Degree of Candidate in Technical Sciences).

90: Knichnaya Letop st, No 9, 1956

DZHAFAROV, Akif, Geroy Sotsialisticheskogo Truda

Outdistancing time. Sov.profsoiuzy 17 no.10:25 My '61. (MIRA 14:5)

1. Master neftepromyslovogo upravleniya "Gyurgyanneft"."
(Neftyannye Kamni---Petroleum industry)
(Socialist competition)

DZHAFAROV, A.S.

Imbedding theorems in norms of L 5, 7 space. Izv. All Azerb. SSR. Ser. fiz.-mat. i tekh. nauk ho.1:81-88 163.

(MIRA 16:7)

(Functions of real variables)
(Spaces, Generalized)

"APPROVED FOR RELEASE: 03/20/2001 CIA

CIA-RDP86-00513R000411820007-8

DIMANAROV, A. J.

Discertation: -- The Lest Approximations in the Mean of Functions of Several Varia less by Means of Entire Functions of Finite Degree and Polyachids." Cand Phys-Math Sci, Azerbaydzhan State Pedagogical Last, Saku, 1954. (Referativayy Zhurnal--Mekhanika, Moscow, Jun 54)

50: 3rm 313, 23 Dac. 1954

UZHAFAROV A.S.

44-1-330

TRANSLATION FROM: Referativnyy Zhurnal, Matematika, 1957, Nr 1,

p. 51 (USSR)

AUTHOR:

Dzhafarov, A. S.

TITLE:

On the Best Mean Approximation of Functions of Many Variables With the Aid of Entire Functions of Finite Order (O nailuchshem priblizhenii v srednem funktsiy mnogikh peremennykh pri pomoshchi tselykh funktsiy konechnoy stepeni)

PERIODICAL:

Tr.Azerb. gos. ped.in-ta, 1955, 2, pp. 110-116

ABSTRACT:

RACT: The space $M(m)L_p(n-m)$ of functions which are defined and measurable on R_n , with the finite norm

 $\|f\|_{\rho}^{(n,n-m)} = \sup_{x \in \mathbb{N}} \left(\int_{\mathbb{R}^{n}} \cdots \int_{\mathbb{R}^{n}} |f(x_{n},...,x_{n})|^{2} dx_{m} \right) = \lim_{x \in \mathbb{N}} \sup_{x \in \mathbb{N}} \left(\int_{\mathbb{R}^{n}} \cdots \int_{\mathbb{R}^{n}} |f(x_{n},...,x_{n})|^{2} dx_{m} \right) = \lim_{x \in \mathbb{N}} \sup_{x \in \mathbb{N}} \int_{\mathbb{R}^{n}} |f(x_{n},...,x_{n})|^{2} dx_{m} dx_{m}$ sible to evaluate the best approximation in the space > 0 $M(m)L_p(n-m)$ by means of entire functions of finite order through the modulus of continuity. Basic result: If partial derivatives of function $f(x,...x_n)$ are

Card 1/2

Drif / 2xi EM (m) [(n-m) - [c=1,...,n)

On ·	the Best Mean Approximation of Functions of Ma	44-1-330 my Variables (Cont.)
	where $\gamma_i > 0$ and integers, then $A_{\nu_i \dots \nu_n}(f) \stackrel{(n, n-m)}{=} C \stackrel{\sum_{i=1}^{n} \nu_i \dots \nu_n}{=} \frac{1}{\nu_i} \stackrel{(n, n-m)}{=} \stackrel{(n, n-m)}{=} \frac{1}{\nu_i} \stackrel{(n, n-m)}{=} \frac{1}{\nu_i} \stackrel{(n, n-m)}{=} \stackrel{(n, n-m)}{=} \stackrel{(n, n-m)}{=} \frac{1}{\nu_i} \stackrel{(n, n-m)}{=} \stackrel{(n, n-m)}{=} \frac{1}{\nu_i} \stackrel{(n, n-m)}{=} (n, n$	f)
	This result is the generalization of corresponding solution of the series of the seri	conding results of
Car	d 2/2	0. V. Besov

DZHAFAROV A.S.

Translation from: Referativnyy Zhurnal, Matematika, 1957, Nr 1, p. 50 (USSR)

AUTHOR:

Dzhafarcv, A. S.

TTTLE:

On the Best Mean Quadratic Approximation of Periodic Functions

With Many Variables by Trigonometric Polynomials (0

srednekvadraticheskom nailuchshem priblizhenii periodicheskikh funtskiy mnogikh peremennykh posredstvom trigonometricheskikh

mnogochlenov)

PERIODICAL: Tr. Azerb. gos. ped. in-ta, 1955, 2, pp. 159-162

ABSTRACT:

The class of functions $f(x_1, x_2, ..., x_n)$ 2π periodic for every argument, is investigated, these functions being multiple

integrals of the order ($\gamma_1, \gamma_2, \gamma_n$) of the function $\ell(t_1, t_2, \dots, t_n) \in L_2$ in the sense of Weil. The sutdetermines the exact upper bound of deviations in the metric L2 in the sense of Weil. The author

Card 1/2

On the Best Mean Quadratic Approximation of Periodic Functions (Cont.)

from Fourier sums of the order (m_0, \cdots, m_m) of the mentioned functions. If function φ changes so that $\|\varphi\| \le K$, then the above-mentioned upper bound is equal to:

K [5 (ms+1)-25] /2

misprints.

Card 2/2

. The article contains many

I. P. Natanson.

DZHAFAROV, A.S.

Imbedding theory for one class of functions of several variables [in Azerbaijani with summary in Russian]. Izv. AN Azerb. SSR. Ser. fiz.-tekh. i khim. nauk no.1:35-45 159. (MIRA 12:6) (Functions)

DZHAFAROV, A.S.

Imbedding theorems for a class of functions of several variables Lin Azerbaijani with summary in Russianj. Izv. AN Azerb. SSR. Ser. fiz. tekh. i khim. nauk no.2:3-11 '59. (MIRA 12:8) (Functions of several variables)

DZHAFAROV. A.S.

Weighted and optimal uniform approximation of funtions by means of polynomials. Dokl.AN Azerb.SSR 15 no.6:459-462 59.

(Approximation computation)

16(1)

Dzhafarov, A.S.

SOV/20-128-3-5/58

AUTHOR:

Some Properties of n-Harmonic Functions

PERIODICAL: Doklady Akademii nauk SSSR,1959,Vol 128,Nr 3,pp 454-455(USSR)

ABSTRACT:

An n-harmonic function is a function $u(\varsigma_1,\theta_1;\dots;\varsigma_n,\theta_n)$ which is harmonic with reference to the pairs of variables ς_i,θ_i , i=1,...,n, for fixed remaining variables. Let $L_p^{(N)}(G)$ be the class of the measurable functions $f(x_1,\dots,x_N)$ which are integrable in G in p-th power. If f is 2N-periodic in all variables and $G = \left\{0 \leqslant x_g \leqslant 2N$, $s=1,\dots,N\right\}$, then the notation $L_p^{k(N)}$ will be used instead of $L_p^{(N)}(G)$. Let $\|f\|_{p,G}^{(N)}(G)$ be the norm of f. Let $G \subset G$ and $\Delta_{hx}^k \varphi$ be the k-th difference of the function φ in the variable x_g for the step h. Then let

Card 1/4

(1) $\omega_{\mathbf{k}\mathbf{x}_{\mathbf{s}}}(\delta, \varphi)_{\mathbf{p}, \mathbf{G}} = \sup_{\mathbf{G}', |\mathbf{h}| \leq \delta} \|\Delta_{\mathbf{h}\mathbf{x}_{\mathbf{s}}}^{\mathbf{k}} \varphi\|_{\mathbf{p}, \mathbf{G}'}^{(\mathbf{N})}$

it holds:

SOV/20-128-3-5/58 Some Properties of n-Harmonic Functions If φ is 2π -periodic in x_s and $G=\left\{0\leqslant x_s\leqslant 2\pi,\ s=1,\ldots,N\right\}$, then let $\omega_{\mathbf{kx}_{\mathbf{g}}}(\delta, \varphi)_{\mathbf{p}, \mathbf{N}}$ be written. Let furthermore $D=[0 \le q_i < 1; 0 \le q_i \le 2\pi^i, i=1,...,N]$ and let w_i denote an arbitrary variable 9,0,. Theorem: Let $f(t_1,...,t_n)$ and all $\frac{\partial^{r_i} f}{\partial r_i}$, i=1,...,n belong to $L_p^{*(n)}$. Let the n-harmonic function $u(\varsigma_1, \theta_1, \dots, \varsigma_n, \theta_n)$ in D satisfy the condition $u(\varsigma_1, \dots, q_n, \theta_n)$. Then for natural q_1, \dots, q_n and $m \le \delta^{-1}$ (0<\delta \leftilde{\delta}_0<1), $B_s = r_s - 1$

Card 2/4

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000411820007-8"

it holds:
1) $\omega_{q_s \alpha_s} (\delta, u)_{p, D} \leq cm^{-q_s} \sum_{v=1}^{m} y^{q_s - \beta_s - \frac{1}{p}} \omega_{k_s t_s}^{\star} (\frac{1}{y}, f_{t_s}^{(r_s)})_{p, n}$

Some Properties of n-Harmonic Functions

SOV/20-128-3-5/58

2) If furthermore $\sum_{m=1}^{\infty} \lambda_s^{-\beta_s - \frac{1}{p}} \omega_{k_s t_g}^{\star} (\frac{1}{m}, f_{t_s}^{(r_s)})_{p,n}$

converges for natural λ_s , then it is

 $\omega_{\mathbf{q_s d_s}}(\delta,\mathbf{u_{d_s}^{(\lambda_s)}})_{\mathbf{p, D}} \leqslant c \begin{cases} \sum_{\mathbf{p}=1}^{n} \mathbf{p}^{\mathbf{q_s + \lambda_s - \beta_s - \frac{1}{p}}} \omega_{\mathbf{k_s t_s}}^* (\frac{1}{\mathbf{p}},\mathbf{r_{t_s}^{(\mathbf{r_s})}})_{\mathbf{p, n^{+}}} \end{cases}$

$$+\sum_{\nu=m+1}^{\infty} \nu^{\lambda_{s}-\beta_{s}-\frac{1}{p}} \omega_{k_{s}t_{s}}^{*} (\frac{1}{\nu}, f_{t_{s}}^{(r_{s})})_{p,n}$$
,

where c does not depend on m.

Theorem 2 treats the case, where it is still $\int f(t_1,...,t_n)dt_1^20$

besides the assumptions of theorem 1. S.M. Nikol'skiy, Ya.S. Bugrov, V.M. Babich and L.N. Slobodetskiy are mentioned by the author.

Card 3/4

"APPROVED FOR RELEASE: 03/20/2001

CIA-RDP86-00513R000411820007-8

Some Properties of n-Harmonic Functions

SOV/20-128-3-5/58

There are 10 Soviet references.

ASSOCIATION: Institut fiziki i matematiki AN Azerb SSR (Institute of Physics and Mathematics AS Azerbaydzhan SSR)

PRESENTED: May 27, 1959, by S.L. Sobolev, Academician

SUBMITTED: May 23, 1959

Card 4/4

DZHAFAROV, A.S.

On a Dirichlet problem for a half-space. Izv. AN Azerb. SSR. Ser. fiz.-mat. i tekh. nauk no.5:3-11 '59. (MIRA 13:3) (Harmonic functions)

DZHAFAROV, A.S.

Some inequalities for entire functions of finite degree. Izv.vys. ucheb.zav.; mat. no.1:103-115 '60. (MIRA 13:6)

1. Azerbaydzhanskiy gosudarstvennyy pedagogicheskiy institut imeni V.I.Lenina.

(Inequalities)

(Functions, Entire)

221:11; 8/044/61/000/001/001/013 C111/C222

16.4100

AUTHOR:

Dzhafarov, A.S.

TITLE:

On the order of the best approximation in the mean of functions of several variables by entire function of finite

degree

PERIODICAL: Referativnyy zhurnal, Matematika, no. 1, 1961, 7,

abstract 1B 23 ("Tr.Azerb.gos.ped.in-ta", 1959, 8, 97-107)

TEXT: The author proves some reversion theorems on the best approximation of functions of several variables by entire functions of finite degree. He gives necessary and sufficient conditions that the best approximation of a function of several variables by entire functions of finite degree tends to zero with a certain order. Let k be a natural number. It is said that $\varphi(\delta)$ ($\varphi(0) = 0$) is a comparison function of k-th order if it is defined on a certain interval [0,h], if it does not decrease, if it tends to zero for $\delta \to 0$ and for sufficiently small δ it satisfies the inequality $\varphi(\delta) > c \delta > 0$, where c does not depend on δ . The function $f(x_1, \dots, x_n)$ belongs to the class $E_{\mathbf{k} \mathbf{x}_0}^{(n, n-m)}[\varphi_{i} \mathbf{k}]_p$ if for the M which is independent of δ it holds

Card 1/3

22474

On the order of the best approximation... S/044/61/000/001/001/013



$$\omega_{\mathbf{k}\mathbf{x}_{\mathbf{g}}}^{(\mathbf{n},\mathbf{n}-\mathbf{m})}(\delta,\mathbf{f})_{\mathbf{p}} \in \mathbf{M}\,\varphi(\delta), \quad 0 \le \delta \le \mathbf{b},$$

where $\phi\left(\delta\right)$ -- comparison function of k-th order. According to the definition it holds

$$f(x_1,...,x_n) \in H_{k_1,...,k_n}^{(n,n-m)} [\varphi_1,...,\varphi_n; M_1,...,M_n]_p$$

if simultaneously it belongs to the classes

$$\mathbf{H}_{\mathbf{k}_{1}\mathbf{x}_{1}}^{(\mathbf{n},\mathbf{n}-\mathbf{m})} \left[\varphi_{1};\mathbf{M}_{1}\right]_{\mathbf{p}}, \dots, \mathbf{H}_{\mathbf{k}_{n}\mathbf{x}_{n}}^{(\mathbf{n},\mathbf{n}-\mathbf{m})} \left[\varphi_{n};\mathbf{M}_{n}\right]_{\mathbf{p}}.$$

Let furthermore $\alpha > 0$ and $k = -[-\alpha]$. It is said that $\varphi(\delta)$ ($0 \le \delta \le b$) belongs to the class N^{α} if $\varphi(\delta)$ is a comparison function of k-th order, and if there exists a constant c > 0 so that for $0 < \delta < \gamma \le b$ it holds: $\gamma^{-\alpha} \varphi(\gamma) \le c \delta^{-\alpha} \varphi(\delta)$. The principal results of the paper are contained in two theorems: Theorem 3. Let k_1, \ldots, k_n be natural numbers, $0 < \alpha_s < k_s$ and $\varphi_s \in N^{\alpha_s}$ ($s = 1, 2, \ldots, n$). If Card 2/3

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On the order of the best approximation... S/044/61/000/001/001/013

 $\mathbb{A}_{\nu_1,\ldots,\nu_n}(f)_p^{(n,n-m)} \leqslant \sum_{n=1}^n \mathbb{M}_n \varphi_n(\frac{1}{\nu_n+1}), \quad \nu_n \geqslant 1$ then it holds

 $f \in \mathbb{H}_{k_{1}, \dots, k_{n}}^{(n, n-m)} [\varphi_{1}, \dots, \varphi_{n}; c_{1}(\mathbb{H}_{1} + \|f\|_{p}^{(n, n-m)}), \dots c_{n}(\mathbb{H}_{n} + \|f\|_{p}^{(n, n-m)})]_{p},$ where C_1, \ldots, C_n do not depend on f. Theorem 6: Let $\varphi_i \in \mathbb{N}^{|\alpha_i|}$ (i=1,...,n).

 $^{\underline{A}}_{\gamma_1,\ldots,\gamma_n}(f)_p^{(n,n-m)} \sim \sum_{i=1}^n \varphi_i(\frac{1}{\gamma_{i+1}})$

it is necessary that for every natural $k_i > \alpha_i$ (i=1,...,n) and sufficient that for a certain $k_i > \alpha_i$ (i=1,...,n) the following condition is

 $\omega_{k_{\underline{i}}x_{\underline{i}}}^{(n,n-m)}(\delta,f)_{p} \sim \rho_{\underline{i}}(\delta)$ (i=1,...,n).

For the definition of $\|f\|_p^{(n,n-m)}$, $\omega_{kx_1}^{(n,n-m)}(\delta_p f)_{p}, A_{v_1}, \dots, v_n(f)_p^{(n,n-m)}$ cf. R.Zh. Mat, 1957, 330. LAbstracter's note: Complete translation.]

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